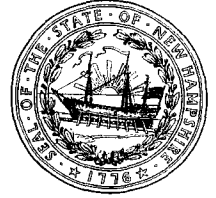




The State of New Hampshire
Department of Environmental Services



Michael P. Nolin
Commissioner

August 18, 2005
Letter of Deficiency
DSP#05-014

Mr. John Wong
1 Fairway Drive
Dover, NH 03820

RE: Wildlife Pond Dam #014.31, Barnstead

Dear Mr. Wong:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that play a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on May 13, 2005. During this visual inspection and/or file review, the following deficiencies were observed:

1. The approach to the emergency spillway was overgrown with trees and brush;
2. The entire downstream slope of the embankment was generally overgrown with trees and brush;
3. At the time of the inspection repair work was being conducted in the inlet of the riser structure. The repair consisted of constructing a concrete slab around the riser;
4. There is embankment erosion located along the entire upstream length of the dam at the normal water line;
5. The downstream end of the corrugated metal outlet pipe is deteriorated with the bottom portion of the pipe being completely rotted;
6. There was a wet area located to the right of the outlet pipe. It is unknown if this water originated from the impoundment or from the adjacent downstream hillside; and
7. There is no operation and maintenance plan (O&M) on file.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

October 1, 2005 (short term):

1. Remove all the trees and brush from the following locations:
 - a. The approach and exit channel of the emergency spillway;
 - b. The entire downstream slope of the embankment;
 - c. For a distance of 15 feet on the horizontal in all direction from the earth embankment;
2. Prepare and submit to the DES a written O&M plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel. Refer to the enclosed guidelines;

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October 1, 2011 (long term):

3. Retain the services of a licensed professional engineer to design, permit and oversee the construction of a new primary spillway structure;
4. Repair the embankment erosion located along the entire upstream length of the dam at the normal water line; and

On a continuing basis:

5. Monitor the wet area located to the right of the spillway outlet pipe as well as monitor the outlet pipe itself.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. Please call or write to our office if the repairs are completed ahead of the aforementioned schedule so that DES may schedule a follow-up inspection. Unless notified otherwise, DES will conduct the follow-up inspection on or after the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the bottom of the previous page.

Sincerely,

COPY
Jeffrey M. Blaney, P.E.
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB8, DB13, Sketch Illustrating Deficiencies

cc: Gretchen R. Hamel, Legal Unit Administrator ✓

Town of Barnstead

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